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SERIES 6

LED TV
user manual

imagine the possibilities

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Model _____ Serial No. _____

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❑ Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen

- Do not display still image and partially still on the LED panel for more than 2 hours as it can cause screen image retention. This image retention is also known as screen burn. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- Watching the LED TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

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- GNU GENERAL PUBLIC LICENSE
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❑ **Symbol**

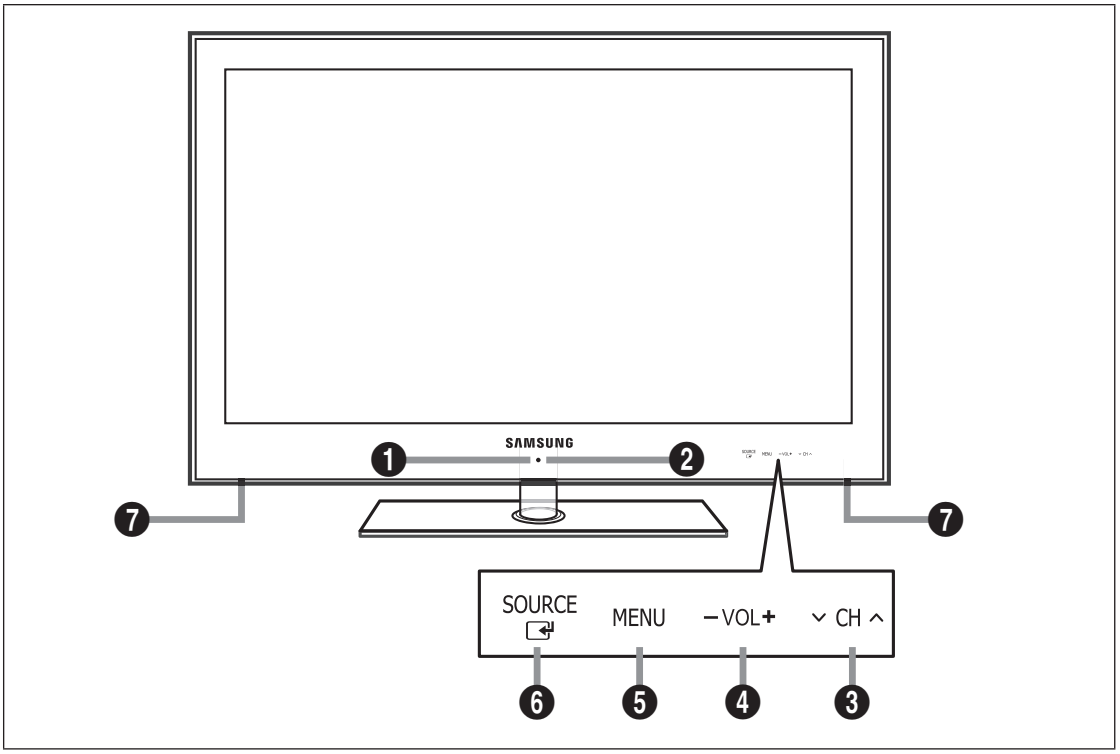
Note	One-Touch Button	TOOLS Button	Press

SETTING UP YOUR TV

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice in order to enhance product performance.

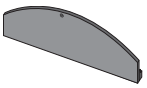
Viewing the Control Panel

The product colour and shape may vary depending on the model.
The front panel buttons can be activated by touching them with your finger.



1. **REMOTE CONTROL SENSOR**: Aim the remote control towards this spot on the TV.
2. **(POWER)**: Press to turn the TV on and off.
3. **CH**: Press to change channels. In the on-screen menu, use the **CH** buttons as you would use the ▼ and ▲ buttons on the remote control.
4. **VOL**: Press to increase or decrease the volume.
   In the on-screen menu, use the **VOL** buttons as you would use the ◄ and ► buttons on the remote control.
5. **MENU**: Press to see an on-screen menu of your TV's features.
6. **SOURCE**: Toggles between all the available input sources. In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.
7. **SPEAKERS**

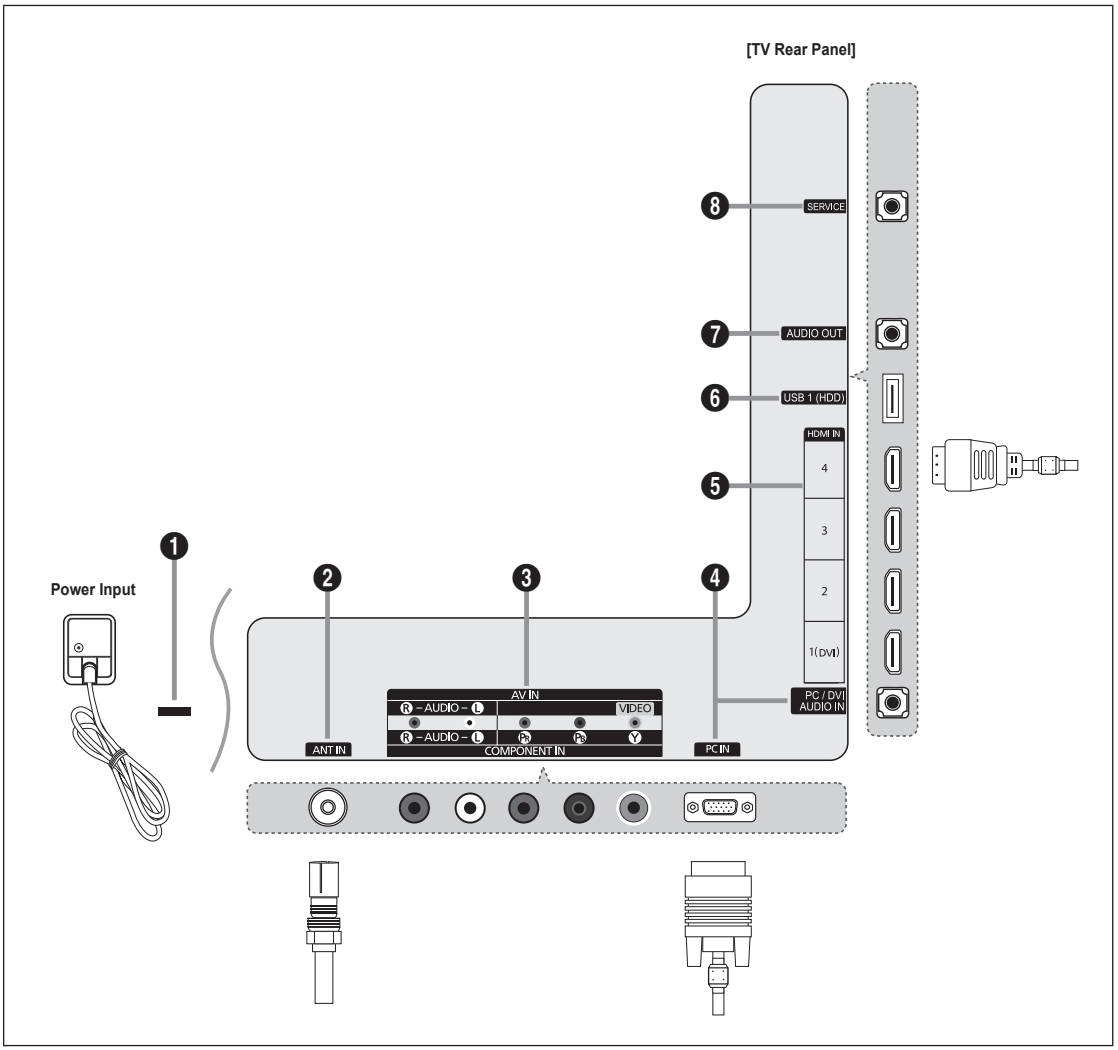
Accessories

		
Remote Control & Batteries (AAA x 2)	Cover-Bottom	Stand Screw X 5 (Depending on the model)
Cleaning Cloth	Holder-Wire Cable (Depending on the model)	Holder-Ring (4ea)
Holder-Wire Stand	Holder-Wire (3ea)	

- Owner's Instructions
- Warranty card
- Safety Guide
- Registration Cards

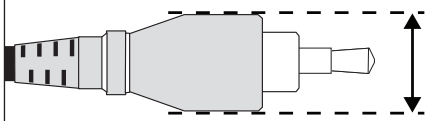
Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.
Warranty card / Safety Guide / Registration Cards (Not available in all locations)
The items colour and shape may vary depending on the model.

Viewing the Connection Panel



The product colour and shape may vary depending on the model.

For best cable connection to this product, be sure to use a cable with a maximum thickness as below:



- Below 40 inch model: Max 0.47inch (12mm)
- 40 inch and above model: Max 0.55inch (14mm)

❶ KENSINGTON LOCK (depending on the model)

– The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

The location of the Kensington Lock may be different depending on its model.

❷ ANT IN

– Connects to an antenna or cable TV system.

❸ **COMPONENT IN**

– Connects Component video / audio.

When connecting, use the appropriate connector.

AV IN [VIDEO] / [R-AUDIO-L]

– Video and audio inputs for external devices, such as a camcorder or VCR.

When connecting, use the appropriate connector.

❹ **PC IN / PC / DVI AUDIO IN**

– Connect to the video and audio output jack on your PC.

If your PC supports an HDMI connection, you can connect this to the **HDMI IN 1(DVI), 2, 3**or **4** terminal.

If your PC supports a DVI connection, you can connect this to the **HDMI IN 1(DVI) / PC / DVI AUDIO IN** terminal.

❺ **HDMI IN 1(DVI), 2, 3, 4**

– Connects to the HDMI jack of a device with an HDMI output.

No additional Audio connection is needed for an HDMI to HDMI connection.

What is HDMI?

- HDMI(High-Definition Multimedia Interface), is an interface that enables the transmission of digital audio and video signals using a single cable.
- The difference between HDMI and DVI is that the HDMI device is smaller in size and has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed.

The TV may not output sound and pictures may be displayed with abnormal colour when DVD / Blu-ray player / Cable Boxes / Satellite receivers supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the **HDMI IN 1(DVI)** jack and the audio cables to the **PC / DVI AUDIO IN** jacks on the back of the TV. If this happens, contact the company that provided the DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) to confirm the HDMI version, then request an upgrade.

Use the **HDMI IN 1(DVI)** jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the **PC / DVI AUDIO IN** jacks for audio. When using an HDMI / DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.

HDMI cables that are not 1.3 may cause annoying flicker or no screen display.

❻ **USB 1 (HDD)**

– Connector for software upgrades and Media Play, etc.

❼ **AUDIO OUT**

– Connect RCA audio cables to **AUDIO OUT** on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theatre.

❽ **SERVICE**

– Connector for service only.

Viewing the Remote Control

- You can use the remote control up to a distance of about 23 feet from the TV.
- The performance of the remote control may be affected by bright light.
- The product colour and shape may vary depending on the model.

❶ **POWER** : Turns the TV on and off.

❷ **TV** : Selects the TV mode directly.

❸ **NUMERIC BUTTONS** : Press to change the channel.

❹ : Performs the same function as the **ENTER** button of the directional buttons. When switching channels with the numeric buttons, and you press the channel number and then the **ENTER** button, the channel is immediately switched.

❺ **CH LIST** : Displays the Channel List on screen.

❻ **TOOLS** : Use to quickly select frequently used functions.

❼ **INFO** : Press to display information on the TV screen.

❽ **COLOUR BUTTONS** : Use these buttons in the **Channel list**, **Media Play** menu, etc.

❾ **–** **+** : Press to increase or decrease the volume.

❿ **MUTE** : Press to temporarily cut off the sound.

⓬ **DUAL** : Sound effect selection

⓭ Use these buttons in the **Media Play** and **Anynet+** modes. (●: This remote can be used to control recording on Samsung recorders with the Anynet+ feature)

⓮ **ON/OFF** : Pressing the **ON/OFF** light button toggles between on and off. When the remote control is on, and a button is pressed on the remote control, the remote control buttons will be lit for a moment. (Using the remote control with the **ON/OFF** light button set to On will reduce the battery usage time.)

⓯ **PRE-CH** : Enables you to return to the previous channel you were watching.

⓰ **MENU** : Displays the main on-screen menu.

⓱ **FAV.CH** : Used to display Favourites Channel Lists on the screen.

⓲ **RETURN** : Returns to the previous menu.

⓳ **UP▲ / DOWN▼ / LEFT◄ / RIGHT► / ENTER** : Use to select on-screen menu items and change menu values.

⓴ **EXIT** : Press to exit the menu.

㉑ **SOURCE** : Press to display and select the available video sources.

㉒ **P** : Press to change channels.

㉓ **P.SIZE** : Picture size selection

㉔ **MEDIA.P** : Allows you to play music files and pictures.

㉕ **HDMI** : Selects the **HDMI** mode directly.

㉖ **SRS** : Selects **SRS TruSurround HD** mode.

Teletext Functions

❷ : Exit from the Teletext display

❺ : Teletext store

❻ : Teletext size selection

❼ : Teletext reveal

❽ Fastext topic selection

⓫ : Alternately select Teletext, Double, or Mix.

⓯ : Teletext sub page

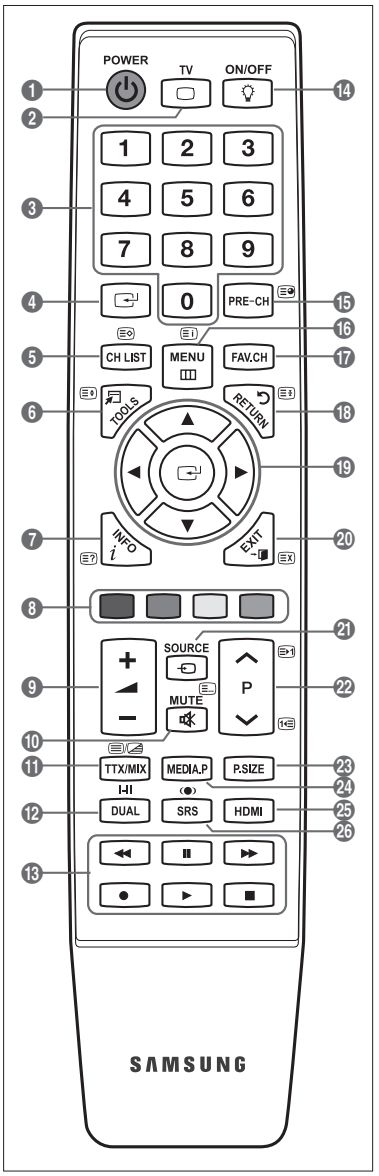
⓰ : Teletext index

⓲ : Teletext hold

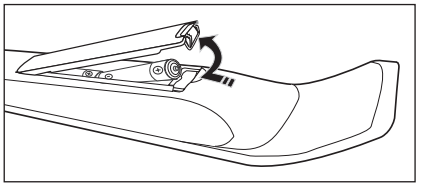
⓴ : Teletext cancel

㉑ : Teletext mode selection (LIST / FLOF)

㉒ : Teletext next page
: Teletext previous page



Installing Batteries in the Remote Control



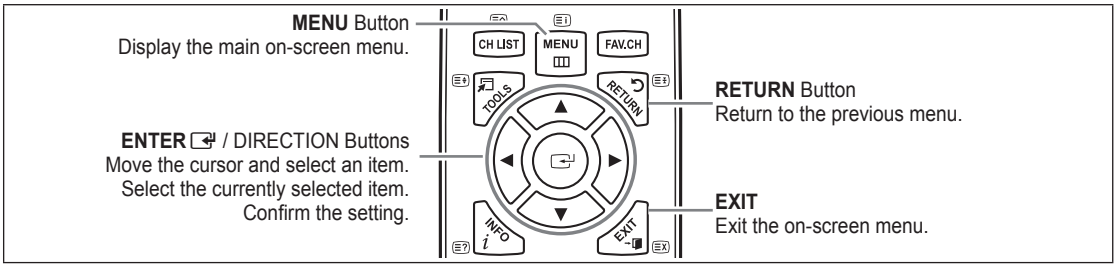
1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. (Assuming typical TV usage, the batteries should last for about one year.)

- If the remote control doesn't work, check the following:
  - Is the TV power on?
  - Are the plus and minus ends of the batteries reversed?
  - Are the batteries drained?
  - Is there a power outage or is the power cord unplugged?
  - Is there a special fluorescent light or neon sign nearby?

OPERATION

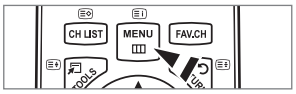
Viewing the menus

Before using the TV, follow the steps below to learn how to navigate the menu in order to select and adjust different functions.



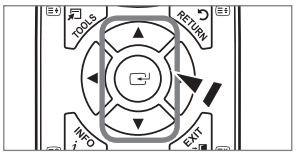
❑ Operation the OSD (On Screen Display)

The access step may differ depending on the selected menu.



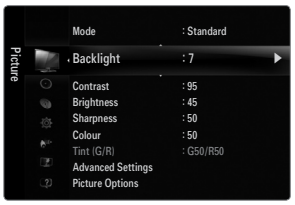
1. Press the **MENU** button.

2. The main menu appears on the screen. The menu's left side has icons : **Picture, Sound, Channel, Setup, Input, Application, Support.**



3. Press the ▲ or ▼ button to select one of the icons.

4. Then press the **ENTER** button to access the icon's sub-menu.
5. Press the ▲ or ▼ button to select the icon's submenu.



6. Press the ◄ or ► button to decrease or increase the value of a particular item. The adjustment OSD may differ depending on the selected menu.
7. Press the **ENTER** button to complete the configuration. Press the **EXIT** button to exit.

Help icon

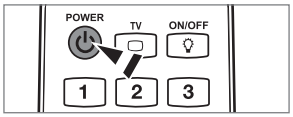
Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the **POWER** ⏻ button on the remote control.
   - The screen is turned off and a standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER** ⏻ button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.



1. Press the **POWER** ⏻ button on the remote control.
   - You can also use the **POWER** ⏻ button on the TV.
   - The message **Select the OSD Language.** is displayed.
2. Press the **ENTER** ↵ button. Press the ▲ or ▼ button to select the language, then press the **ENTER** ↵ button. The message **Select 'Home Use' when installing this TV in your home.** is displayed.

3. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** ↵ button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
4. Press the **ENTER** ↵ button. Select the appropriate area by pressing the ▲ or ▼ button. Press the **ENTER** ↵ button to confirm your choice.
5. The channel search will start and end automatically.
   - Press the **ENTER** ↵ button at any time to interrupt the memorization process.
   - After all the available channels are stored, the message **Set current date and time** is displayed.
6. Press the **ENTER** ↵ button.
   Select the **Day, Month, Year, Hour,** or **Minute** by pressing the ◄ or ► button.
   Set the **Day, Month, Year, Hour,** or **Minute** by pressing the ▲ or ▼ button.
   - You can also set the **Day, Month, Year, Hour** and **Minute** by pressing the number buttons on the remote control.
7. The connection method to provide the best quality HD is offered. After confirming the method, press the **ENTER** ↵ button.
8. Press the **ENTER** ↵ button to confirm your setting. The message **Enjoy your TV.** is displayed. When you have finished, press the **ENTER** ↵ button.
   - Even if the **ENTER** ↵ button is not pressed, the message will automatically disappear after several seconds.

If you want to reset this feature...

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** ↵ button.
2. Press the **ENTER** ↵ button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is **0-0-0-0**.
   - If you want to change PIN number, use the **Change PIN** function. (refer to page 19)
   - The **Plug & Play** feature is only available in the TV mode.

CHANNEL

Channel Menu

❑ Area

You can change the area for channels.

❑ Auto Store

You can scan for the frequency ranges available to you (and availability depends on your area). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

- If a channel is locked using the **Child Lock** function, the PIN input window appears.
- Scans for all channels with active broadcast stations and stores them in the TV's memory.
- If you want to stop Auto Store, press the **ENTER** ↵ button.
  The **Stop Auto Store?** message will be displayed.
  Select **Yes** by pressing the ◄ or ► button, then press the **ENTER** ↵ button.

❑ Manual Store

- Scans for a channel manually and stores it in the TV's memory.
- If a channel is locked using the **Child Lock** function, the PIN input window appears.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (**0~9**) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43 / NTSC 3.58**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / M**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number.
  - You can also select the channel number directly by pressing the number (**0~9**) buttons.
  - If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** ↵ button.
  - **Channel mode**
    - **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
    - **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
    - **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Channel List

For detailed procedures on using the **Channel List**, refer to the 'Managing Channels' instructions. (refer to pages 10~11)

- You can select these options by simply pressing the **CH LIST** button on the remote control.

❑ Channel Mode

When press the **P** ∨/∧ button, Channels will be switched within the selected channel list.

- **Added Ch.**
  Channels will be switched within the memorized channel list.
- **Favourite Ch.**
  Channels will be switched within the favourite channel list.

❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

- Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.
- Only TV channels can be fine tuned.

Managing Channels

Using this menu, you can add / delete or set favourites channels.

- **All Channels**
  Shows all currently available channels.

- **Added Channels**
  Shows all added channels.
- **Favourites**
  Shows all favourite channels.
  To select the favourites channels you have set up, press the **FAV.CH** button on the remote control.
- **Programmed**
  Shows all current reserved programmes.
  Select a channel in the **All Channels, Added Channels** or **Favourites** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** button. Then you can watch the selected channel.
  Using the Colour buttons with the Channel List
  - Green (**Zoom**): Enlarges or shrinks a channel number.
  - Yellow (**Select**): Selects multiple channel lists.
    You can perform the add/delete or add to favourites/delete from favourites function for multiple channels at the same time.
    Select the required channels and press the Yellow button to set all the selected channels at the same time.
    The ✓ mark appears to the left of the selected channels.
  - **TOOLS** (**Tools**): Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing, Edit Channel Name, Sort, Select All** (or **Deselect All**), **Auto Store** menu. (The Options menus may differ depending on the situation.)

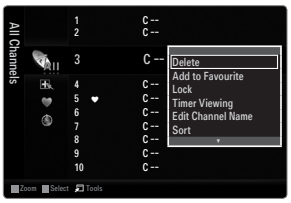
  Channel Status Display Icons

✓	A channel selected by pressing the yellow button.	♥	A channel set as a Favourite.
	A programme currently being broadcast.		A locked channel.
	A reserved programme		

Channel List Option Menu (in All Channels / Added Channels / Favourites)

Press the **TOOLS** button to use the option menu.
Option menu items may differ depending on the channel status.

- **Add / Delete**
  You can delete or add a channel to display the channels you want.
  All deleted channels will be shown on **All Channels** menu.
  A gray-coloured channel indicates the channel has been deleted.
  The **Add** menu only appears for deleted channels.
  You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.



- **Add to Favourite / Delete from Favourite**
  You can set channels you watch frequently as favourites.
  Press the **TOOLS** button to display the **Tools** menu. You can also set the add to (or delete from) Favourite by selecting **Tools** → **Add to Favourite** (or **Delete from Favourite**).
  The ♥ symbol will be displayed and the channel will be set as a favourite.
  All favourite channels will be shown on **Favourites** menu.
- **Lock / Unlock**
  You can lock a channel so that the channel cannot be selected and viewed.
  This function is available only when the **Child Lock** is set to **On**. (see page 19)
  The PIN number input screen appears. Enter your 4 digit PIN number.
  The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu.
  The symbol will be displayed and the channel will be locked.

- **Timer Viewing**
  If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme, set the current time first. (see page 20)
  - Only memorized channels can be reserved.
  - You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control.
  - Reserving a programme will be shown in the **Programmed** menu.

- **Edit Channel Name**
  Channels can be labelled so that their call letters appear whenever the channel is selected.

- **Sort**
  This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

- **Select All / Deselect All**
  - **Select All**: You can select all the channels in the channel list.
  - **Deselect All**: You can deselect all the selected channels.
  - You can only select **Deselect All** when there is a selected channel.

- **Auto Store**
  - For detailed procedures on setting up options, refer to page 9.
  - If a channel is locked using the **Child Lock** function, the PIN input window appears.

Channel List Option Menu (in Programmed)

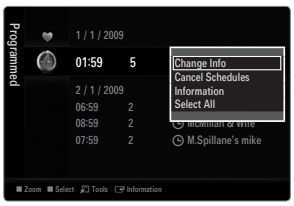
You can view, modify or delete a reservation.
- Press the **TOOLS** button to use the option menu.

- **Change Info**
  Select to change a viewing reservation.

- **Cancel Schedules**
  Select to cancel a viewing reservation.

- **Information**
  Select to view a viewing reservation.
  (You can also change the reservation information.)

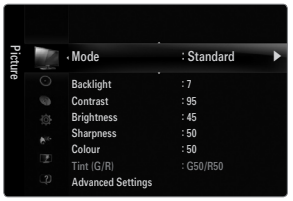
- **Select All**
  Select all reserved programmes.



PICTURE

Configuring the Picture Menu

❑ Mode

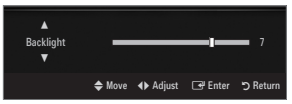


You can select the type of picture which best corresponds to your viewing requirements.

Press the **TOOLS** button to display the **Tools** menu. You can also set the picture mode by selecting **Tools** → **Picture Mode**.

- **Dynamic**
  Selects the picture for increased definition in a bright room.
- **Standard**
  Selects the picture for the optimum display in a normal environment.
- **Natural**
  Selects the picture for an optimum and eye-comfortable display.
  This function is not available in PC mode.
- **Movie**
  Selects the picture for viewing movies in a dark room.

❑ Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)



Your television has several setting options that allow you to control the picture quality.

- **Backlight**
  Adjusts the brightness of LED back light.
- **Contrast**
  Adjusts the contrast level of the picture.
- **Brightness**
  Adjusts the brightness level of the picture
- **Sharpness**
  Adjusts the edge definition of the picture.
- **Colour**
  Adjusts colour saturation of the picture.
- **Tint (G/R)**
  Adjusts the colour tint of the picture.

  In **TV, AV** modes of the PAL system, you cannot use the **Tint (G/R)** Function.

  When you make changes to **Backlight, Contrast, Brightness, Sharpness, Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly.

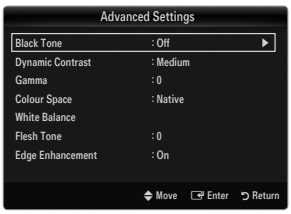
  In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.

  Settings can be adjusted and stored for each external device you have connected to an input of the TV.

  The energy consumed during use can be significantly reduced if the brightness level of the picture is lowered, which will reduce the overall running cost.

❑ Advanced Settings

Samsung's new TVs allow you to make even more precise picture settings than previous models.



- **Advanced Settings** is available in **Standard** or **Movie** mode.
- In PC mode, you can only make changes to **Dynamic Contrast, Gamma** and **White Balance** from among the **Advanced Settings** items.

■ **Black Tone → Off / Dark / Darker / Darkest**

You can select the black level on the screen to adjust the screen depth.

■ **Dynamic Contrast → Off / Low / Medium / High**

You can adjust the screen contrast so that the optimal contrast is provided.

■ **Gamma**

You can adjust the primary colour (red, green, blue) Intensity.

■ **Colour Space**

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite colour space to experience the most natural colour.

- **Auto**: Auto Colour Space automatically adjusts to the most natural colour tone based on programme sources.
- **Native**: Native Colour Space offers deep and rich colour tone.
- **Custom**: Adjusts the colour range to suit your preference.
  - Changing the adjustment value will refresh the adjusted screen.
  - Settings can be adjusted and stored for each external device you have connected to an input of the TV. For example, if you have a DVD player connected to HDMI 1 and it is currently selected, settings and adjustments will be saved for the DVD player.
    - **Colour: Red, Green, Blue, Yellow, Cyan** or **Magenta**
      - **Colour** is available when **Colour Space** is set to **Custom**.
      - In **Colour**, you can adjust the RGB values for the selected colour.
      - To reset the adjusted RGB value, select **Reset**.
    - **Red**: Adjusts the red saturation level of the selected colour.
    - **Green**: Adjusts the green saturation level of the selected colour.
    - **Blue**: Adjusts the blue saturation level of the selected colour.
    - **Reset**: Resets the colour space to the default values.

■ **White Balance**

You can adjust the colour temperature for more natural picture colours.

- **R-Offset**: Adjusts the red colour darkness.
- **G-Offset**: Adjusts the green colour darkness.
- **B-Offset**: Adjusts the blue colour darkness.
- **R-Gain**: Adjusts the red colour brightness.
- **G-Gain**: Adjusts the green colour brightness.
- **B-Gain**: Adjusts the blue colour brightness.
- **Reset**: The previously adjusted white balance will be reset to the factory defaults.

■ **Flesh Tone**

You can emphasize the pink 'flesh tone' in the picture.

- Changing the adjustment value will refresh the adjusted screen.

■ **Edge Enhancement → Off / On**

You can emphasize object boundaries in the picture.

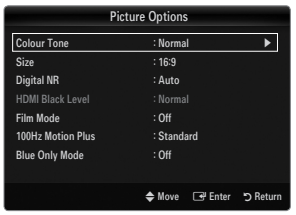
■ **xvYCC → Off / On**

Setting the xvYCC mode to on increases detail and colour space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks.

- **xvYCC** is available when the picture mode is set to **Movie**, and the external input is set to HDMI or Component mode.
- This function may not be supported depending on your external device.

❑ Picture Options

In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.



■ Colour Tone → Cool / Normal / Warm1 / Warm2 / Warm3

Warm1, Warm2 or **Warm3** is only activated when the picture mode is **Movie**.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

■ Size

Occasionally, you may want to change the size of the image on your screen. Your TV comes with several screen size options, each designed to work best with specific types of video input. Your cable box/satellite receiver may have its own set of screen sizes as well. In general, though, you should view the TV in 16:9 mode as much as possible.

Press the **TOOLS** button to display the **Tools** menu. You can also set the size by selecting **Tools** → **Picture Size**.

Alternately, you can press the **P.SIZE** button on the remote control repeatedly to change the picture size.

- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Screen Fit**: Use the function to see the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

Depending on the input source, the picture size options may vary.

The items available may differ depending on the selected mode.

In PC Mode, only **16:9** and **4:3** mode can be adjusted.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

Temporary image retention may occur when viewing a static image on the set for more than two hours.

Wide Zoom: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up / down. Then press the **ENTER** button.

Zoom: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to Select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.

After selecting **Screen Fit** in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ► button. Use the ▲, ▼, ◄ or ► button to move the picture.

– **Reset**: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.

If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

When Double (▮▮, ▬▬) mode has been set in PIP, the Picture Size cannot be set.

■ Digital NR → Off / Low / Medium / High / Auto

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

When the signal is weak, select one of the other options until the best picture is displayed.

■ HDMI Black Level → Normal / Low

You can directly select the black level on the screen to adjust the screen depth.

This function is active only when the external input connects to HDMI (RGB signals).

■ Film Mode → Off / Auto1 / Auto2

The TV can be set to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

Film Mode is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).

- **Off**: Turn the Film Mode function off.
- **Auto1**: Automatically adjusts the picture for the best quality when watching a film.
- **Auto2**: Automatically optimizes the video text on the screen (not including closed captions) when watching a film.

■ **100Hz Motion Plus → Off / Clear / Standard / Smooth / Custom / Demo**

Removes drag from fast scenes with a lot of movement to provide a clearer picture.

✎ If you enable **100Hz Motion Plus**, noise may appear on the screen. If this occurs, set **100Hz Motion Plus** to **Off**.

- **Off**: Switches 100Hz Motion Plus off.
- **Clear**: Sets 100Hz Motion Plus to minimum.
- **Standard**: Sets 100Hz Motion Plus to medium.
- **Smooth**: Sets 100Hz Motion Plus to maximum.
- **Custom**: Adjusts the blur and judder reduction level to suit your preference.
  - **Blur Reduction**: Adjusts the blur reduction level from video sources.
  - **Judder Reduction**: Adjusts the judder reduction level from video sources when playing films.
  - **Reset**: Reset the custom settings.
- **Demo**: Displays the difference between 100Hz Motion Plus on and off modes.

■ **Blue Only Mode → Off / On**

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Colour and Tint of video equipment such as DVD players, Home Theatres, etc. Using this function, you can adjust the Colour and Tint to preferred values appropriate to the signal level of each video device using the Red / Green / Blue / Cyan / Magenta / Yellow Colour Bar Patterns, without using an additional Blue Filter.

✎ **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.

❑ **Picture Reset → Reset Picture Mode / Cancel**

Resets all picture settings to the default values.

✎ **Reset Picture Mode**: Current picture values return to default settings.

Viewing Picture-in-Picture

You can use the PIP feature to simultaneously watch the TV tuner and one external video source. This product has one built-in tuner, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.

✎ Press the **TOOLS** button to display the **Tools** menu. You can also configure PIP related settings by selecting **Tools → PIP**.

✎ If you select the PIP picture sound, refer to the 'Configuring the Sound Menu' instructions. (refer to pages 17~18)

✎ PIP Settings

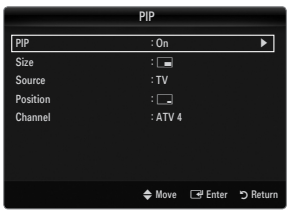
Main picture	Sub picture
Component	TV
HDMI1(DVI), HDMI2, HDMI3, HDMI4	TV, AV
PC	

✎ If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.

✎ You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

❑ **PIP → Off / On**

You can activate or deactivate the PIP function.



❑ **Size →** ▣ / ▣ / ▣▣ / ▣▣

You can select a size of the sub-picture.

❑ **Source**

You can select a source of the sub-picture.

❑ **Position →** ▣ / ▣ / ▣ / ▣

You can select a position of the sub-picture.

✎ In Double (▣▣, ▣▣) mode, **Position** cannot be selected.

❑ **Channel**

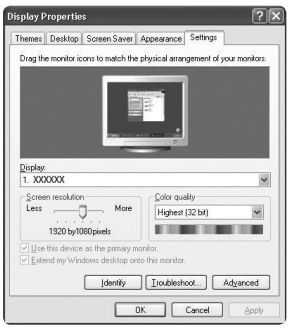
You can select the channel for the sub-screen.

✎ **Channel** is available when the **Source** is set to **TV**.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialogbox will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.
   - The correct size setting (resolution) - Optimum: 1920 X 1080 pixels
   - If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed on the next page, the screen image has been optimized during manufacturing.

■ **D-Sub and HDMI/DVI Input**

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1152 x 864	53.783	59.959	81.750	-/+
	1280 x 720	44.772	59.855	74.500	-/+
	1280 x 720	56.456	74.777	95.750	-/+
	1280 x 960	75.231	74.857	130.000	-/+
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 800	62.795	74.934	106.500	-/+
	1280 x 960	60.000	60.000	108.000	+/+
	1360 x 768	47.712	60.015	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1440 x 900	70.635	74.984	136.750	-/+
	1680 x 1050	65.290	59.954	146.250	-/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+
	1280 x 1024	74.620	70.000	128.943	-/-
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.
- Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080).

Setting up the TV with your PC

Preset: Press the **SOURCE** button to select PC mode.

❑ Auto Adjustment

Use the Auto Adjust function to have the TV automatically adjust the video signals it receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

Press the **TOOLS** button to display the **Tools** menu. You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment**.

This function does not work in DVI-HDMI mode.

❑ Screen

Coarse / Fine

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the centre of screen.

PC Position

Adjust the PC's screen positioning if it does not fit the TV screen.

Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.

Image Reset

You can replace all image settings with the factory default values.

SOUND

Configuring the Sound Menu

❑ Mode → Standard / Music / Movie / Clear Voice / Custom

Press the **TOOLS** button to display the **Tools** menu. You can also set the sound mode by selecting **Tools** → **Sound Mode**.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voice over other sounds.
- **Custom**: Recalls your customized sound settings.

❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Mode**: Selects the sound mode among the predefined settings.
- **Balance L/R:** Adjusts the balance between the right and left speaker.
- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies.
- **Reset**: Resets the equalizer settings to the default values.

❑ SRS TruSurround HD → Off / On

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

You can select these options by simply pressing the **SRS** button on the remote control.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

❑ Speaker Select

When you watch TV with it connecting to a Home theatre, turn the TV speakers off so you can listen to sound from the Home theatre's (external) speakers.

- **External Speaker**: Used to listen to the sound of the External (Home Theatre) Speakers.
- **TV Speaker**: Used to listen to the sound of the TV Speakers.
  - The volume and **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.
  - If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (L/R Out) to Sound System
	RF / AV / Component / PC / HDMI	RF / AV / Component / PC / HDMI
TV Speaker	Sound Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

❑ Sound Select → Main / Sub

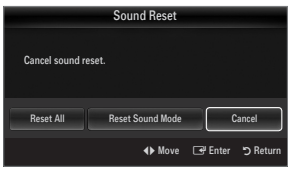
When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- You can select this option when **PIP** is set to **On**.
- Press the **TOOLS** button to display the **Tools** menu. You can also set the sound of the sub picture by selecting **Tools** → **PIP** → **Sound Select**.

❑ Sound Reset → Reset All / Reset Sound Mode / Cancel

You can restore the Sound settings to the factory defaults.

- **Reset Sound Mode**: Current sound values return to default settings.



Selecting the Sound Mode

You can set the sound mode by pressing the **DUAL** button. When you press it, the current sound mode is displayed on the screen.

	Audio Type	Dual 1 / 2	Default
A2 Stereo	Mono	**MONO**	Automatic change
	Stereo	**STEREO ↔ MONO**	
	Dual	**DUAL 1 ↔ DUAL 2**	**DUAL 1**
NICAM Stereo	Mono	**MONO**	Automatic change
	Stereo	**MONO ↔ STEREO**	
	Dual	**MONO ↔ DUAL 1 ↔ DUAL 2**	**DUAL 1**

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in TV mode.

SETUP

Configuring the Setup Menu

❑ Language

You can set the menu language.

❑ Time

For detailed procedures on setting up options, refer to the 'Setting the Time' instructions. (refer to pages 20~21)

❑ Game Mode → Off / On

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.

- Restrictions on game mode (Caution)
  - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
  - If you display the TV menu in **Game Mode**, the screen shakes slightly.
- **Game Mode** is not available in regular TV and PC mode.
- While **PIP** is in operation, the **Game Mode** function cannot be used.
- If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. Set **Game Mode** to **Off** and connect external devices.
- If **Game Mode** is On:
  - Picture mode is automatically changed to **Standard** and cannot be changed.
  - Sound mode is automatically changed to **Custom** and cannot be changed. Adjust the sound using the equalizer.
  - The Reset Sound function is activated. Selecting the Reset function after settings the equalizer resets the equalizer settings to the factory defaults.

❑ BD Wise → Off / On

Provides the optimal picture quality for SAMSUNG DVD, Blu-ray and Home Theatre products which support BD Wise. You can enjoy a richer picture when using them connected to this Samsung TV.

- Connect SAMSUNG products that have BD Wise using an HDMI cable.
- **BD Wise** is available in HDMI mode.
- When the **BD Wise** set to **On**, the picture mode is automatically changed to the optimal resolution.

❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 9)
- **Child Lock** is available only in TV mode.

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to **0-0-0-0**: **POWER** (Off) → **MUTE** → **8** → **2** → **4** → **POWER** (On).

❑ Light Effect → Off / In Standby / Watching TV / Always

You can turn on/off the LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- **Off**: LED is always off.
- **In Standby**: Turns the LED on in standby mode.
- **Watching TV**: Turns the LED on while watching TV.
- **Always**: LED is always on.

- Set the **Light Effect** to **Off** to reduce the power consumption.
- The colour of light may very depending on the model.

❑ Melody → Off / Low / Medium / High

A melody sound can be set to come on when the TV is powered On or Off.

✎ The Melody does not play

- When no sound is output from the TV because the **MUTE** button has been pressed.
- When no sound is output from the TV because the volume has been reduced to minimum with the **VOL –** button.
- When the TV is turned off by Sleep Timer function.

❑ Energy Saving → Off / Low / Medium / High / Auto

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

✎ Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

❑ PIP

For detailed procedures on setting up options, refer to page 15.

Setting the Time

❑ Clock

Setting the clock is necessary in order to use the various timer features of the TV.

✎ The current time will appear every time you press the **INFO** button.

✎ If you disconnect the power cord, you have to set the clock again.

- **Clock Set**

  You can set the current time manually.

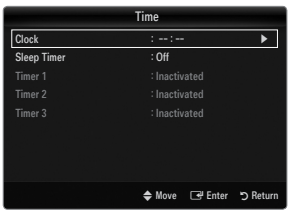
  ✎ You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.

❑ Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

✎ Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

✎ To cancel the **Sleep Timer** function, select **Off**.



❑ Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made.

You must set the clock first.

- **On Time**

  Set the hour, minute and activate / inactivate.

  (To activate timer with the setting you've chosen, set to **Activate**.)

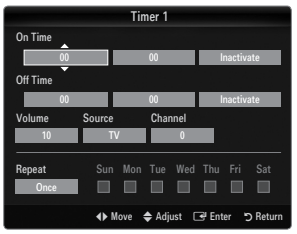
- **Off Time**

  Set the hour, minute and activate / inactivate.

  (To activate timer with the setting you've chosen, set to **Activate**.)

- **Volume**

  Set the desired volume level.



- **Source → TV / USB**

  You can select the TV or USB device content to be played when the TV turns on automatically. Select TV or USB. (Make sure that an USB device is connected to your TV.)

  ✎ When there is only one photo file in the **USB**, the Slide Show will not play.

- **Channel (when Source is set to TV)**

  Select the desired channel.

- **Contents (when Source is set to USB)**

  You can select a folder on the USB Device with music or photo files to be played when the TV turns on automatically.

  - If the folder name is too long, the folder can not be selected.
  - If you are using two of the same type USB device, be sure the folder names are different so the correct USB is read.

- **Repeat**

  Select **Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun** or **Manual**.

  - When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER** ↵ button over the desired day and the ✓ mark will appear.
  - You can set the hour, minute and channel by pressing the number buttons on the remote control.
  - **Auto Power Off**

    When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

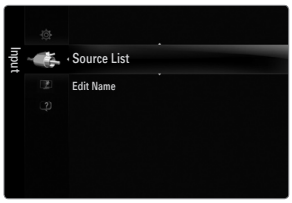
INPUT / SUPPORT

Input Menu

❑ Source List

Use to select TV or other external input sources such as DVD / Blu-ray players / Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.

- Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button.
- You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control.



■ **TV / AV / Component / PC / HDMI1/DVI / HDMI2 / HDMI3 / HDMI4 / USB**

- You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.
- PC always stay activated.
- Using the Colour buttons on the remote with the Source list
  - Red (**Refresh**): Refreshes the connected external devices. Press this if your Source is on and connected, but does not appear in the list.
  - **TOOLS** (**Tools**): Displays the **Edit Name** and **Information** menus.

❑ Edit Name

■ **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI / DVI PC / TV / IPTV / Blu-ray / HD DVD / DMA**

Name the device connected to the input jacks to make your input source selection easier.

- When a PC with a resolution of 1920 x 1080 @ 60Hz is connected to the **HDMI IN 1(DVI)** port, you should set the **HDMI1/DVI** mode to **DVI PC** in the **Edit Name** of the **Input** mode.
- When connecting an HDMI/DVI cable to the **HDMI IN 1(DVI)** port, you should set the **HDMI1/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

Support Menu

❑ Self Diagnosis

■ **Picture Test**

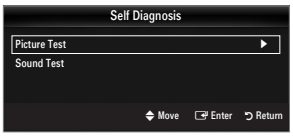
If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem still exists.

- **Yes**: If the test pattern does not appear or there is noise in the test pattern, select **Yes**. There may be a problem with the TV. Therefore, contact Samsung's call centre for assistance.
- **No**: If the test pattern is properly displayed, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

■ **Sound Test**

If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV.

- If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.
- The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

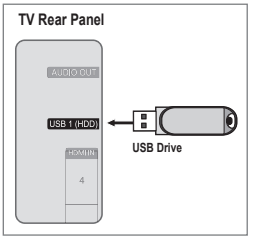


- **Yes**: If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. There may be a problem with the TV. Therefore, contact Samsung's call centre for assistance.
- **No**: If you can hear sound from the speakers, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

❑ Software Upgrade

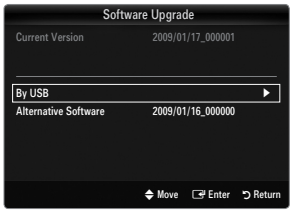
Samsung may offer upgrades for the TV's firmware in the future. These upgrades can be performed via the TV when it is connected to the Internet, or by downloading the new firmware from samsung.com to a USB memory device.

- Current Version is the software already installed in the TV.
- Alternative Software (Backup) shows the previous version that will be replaced.
- Software is represented as 'Year/Month/Day_Version'. The more recent the date, the newer the software version. Installing the latest version is recommended.



By USB

Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete (the new version will have a higher number than the older version). When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.



Alternative Software (Backup)

If there is an issue with the new firmware and it is affecting operation, you can change the software to the previous version.

- If software was changed, existing software is displayed.
- You can change current software to alternative software by 'Alternative Software'.

❑ HD Connection Guide

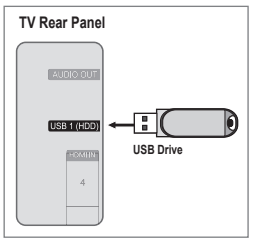
This menu presents the connection method that provides the optimal quality for the HD TV. Refer to this information when connecting external devices to the TV.

❑ Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can view the information regarding the call centre, product and software file download method.

MEDIA PLAY (USB)

Connecting a USB Device



1. Press the **POWER** button to turn the TV on.
2. Connect a USB device containing photo, music and/or movie files to the **USB 1 (HDD)** jack on the side of the TV.
3. When the **Application** selection screen is displayed, press the **ENTER** ↵ button to select **Media Play (USB)**.

- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **Media Play** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported.).
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Connect a USB HDD to the dedicated port, **USB 1 (HDD)** port. However, if the connected device requires high power, the **USB 1 (HDD)** may fail to support the device.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 X 8640 pixels.
- For unsupported or corrupted files, the 'Not Supported File Format' message is displayed.
- If sort key is set to Basic View, up to 1000 files can be displayed in each folder. The other sort key can display up to 10000 files.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than one MSC device is connected, some of them may not be recognized. If a device requires high power (more than 500mA or 5V), the USB device may not be supported.
- If an over-power(Fail add new device USB1 Power Overload) warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.

Using the Remote Control Button in Media Play Menu

Button	Operations
▲/▼/◄/►	Move the cursor and select an item.
ENTER ↵	Select the currently selected item. While playing a slide show, movie, or music file: - Pressing the **ENTER** ↵ button during play pauses the play. - Pressing the **ENTER** ↵ button during pause resumes the play.
►/II	Play or pause the Slide Show, music or movie.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
■	Stop the current slide show, Music or Movie file.
◄◄/►►	Jump to previous group/Jump to next group.
INFO	Show file information.
MEDIA.P	Exit **Media Play** mode.
∧ P ∨, EXIT, TV	Stop **Media Play** mode and Returns to TV mode.

Media Play Function

This function enables you to view and listen to photo or music files saved on a USB Mass Storage Class (MSC) device.

It might not work properly with unlicensed multimedia files.

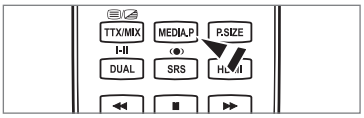
Entering the Media Play (USB) Menu

1. Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.

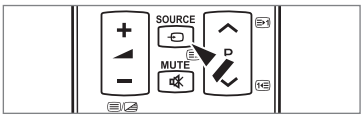
2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the **ENTER** button.

   The **Media Play (USB)** menu is displayed.

   Press the **MEDIA.P** button on the remote control to display the Media Play menu.



   Press the **SOURCE** button on the remote control to view the source list. Then Press the ▲ or ▼ button to select **USB**.



3. Press the Red button, then press the ▲ or ▼ button to select the USB Memory. Press the **ENTER** button.

   This function differs depending on the USB Memory Device.

   The selected USB device name appears at the bottom left of the screen.

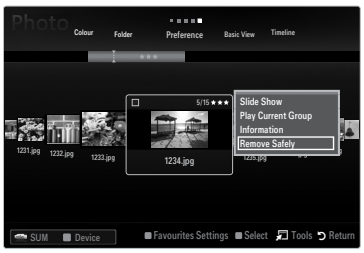
4. Press the ◄ or ► button to select an icon (**Photo, Music, Setup**), then press the **ENTER** button.

   To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.

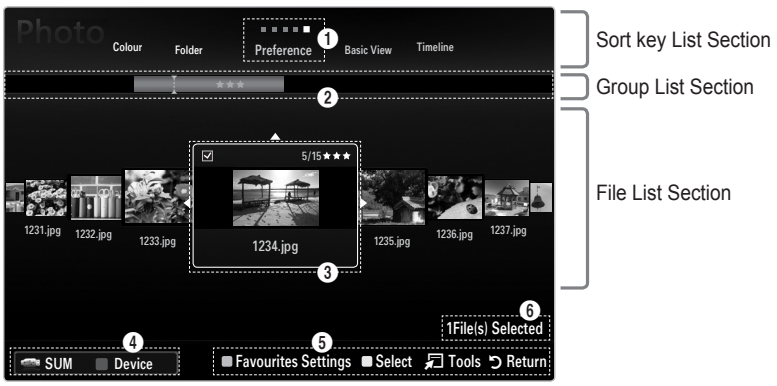
Removing a USB Memory Device Safely

You can remove the device safely from the TV.

1. Press the **TOOLS** button in the Media Play file list screen, or while a Slide Show or music is being played.
2. Press the ▲ or ▼ button to select **Remove Safely**, then press the **ENTER** button.
3. Remove the USB device from the TV.



Screen Display



Sort key List Section

Group List Section

File List Section

Move to either 'Sort key List Section', 'Group List Section' or 'File List Section' using the Up and Down buttons. After selecting a section, press the ◄ or ► buttons to select an item.

❶ Current Sort key: This field shows the current standard for sorting files. Press the ◄ or ► button to change the standard for sorting files.

❷ View Groups: Shows the detailed groups of the files sorted according to the selected Sort key. The sort group where the currently selected file is contained is highlighted.

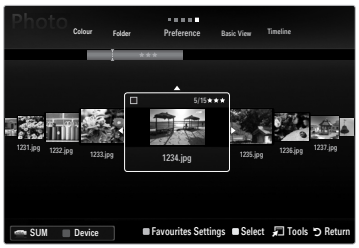
❸ Currently selected file: The selected file is the file you can now control. Photo files are displayed as thumbnail images.

❹ Current Device: Shows the currently selected device name. Press the Red button to select a device.
- Red (**Device**) button: Selects a connected device.

❺ Help Items
- Green (**Favourites Settings**) button: Changes the Favourites Settings for the selected file. Press this button repeatedly until the desired value appears.
- Yellow (**Select**) button: Selects file from the file list. Selected files are marked with a symbol ✓. Press the Yellow button again to cancel a file selection.
- **TOOLS** (**Tools**) button: Displays the option menus. (The option menu changes according to the current status.)

❻ Item Selection Information: Shows the number of files that are selected by pressing the Yellow button.

Sorting the Photo List



You can sort photos in the Photo List by a particular standard.

1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Photo**, then press the **ENTER** button.
3. Press the ▲ button to move to the Sort key Section.
4. Press the ◄ or ► button to select a sorting standard. (**Basic View, Timeline, Colour, Folder, Preference**)
   The photos are sorted according to the newly selected sorting standard.
5. Press the ▼ button to move to the File List Section. Press the (Play)/ **ENTER** button to start the Slide Show in the order you selected.
   To move to the previous/next group, press the (REW) or (FF) button.
   Photo information is automatically set. The colour information extracted from a photo file may be different from your expectations. You can change the colour and preference.
   PTP does not support folder sort mode.

❑ Basic View

Shows the folders on the USB memory device. If you select a folder and press the **ENTER** button, only the photo files contained in the selected folder are displayed.

When sorted according to the **Basic View**, you cannot set Favourites files.

❑ Timeline

Sorts photos by date. It sorts by year and month from the earliest photo.

❑ Colour → Red / Yellow / Green / Blue / Magenta / Black / Gray / Unclassified

Sorts photos by colour. You can change the photo colour information.

You should set the **Use Colour View** to on in the **Setup** menu before sorting photos by colour.

❑ Folder

Sorts photos by folder. If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.

❑ Preference → ★☆☆ / ★★☆ / ★★★ / ★★★

Sorts photos by preference (Favourites). You can change the photo preferences.

Changing the Favourites Settings
Select the desired photo in the Photo list, then press the Green button repeatedly until the desired setting appears.

Up to 3 stars can be selected.

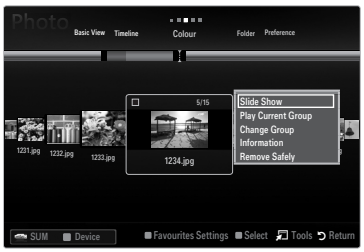
The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

Photo List Option Menu

1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Photo**, then press the **ENTER** button.
3. Press the ◄ or ► button to select the desired photo file.
   Selecting Multiple Photos
   - Press the ◄ or ► button to select the desired photo file. Then press the Yellow button.
   - Repeat the above operation to select multiple photo files.
   - The mark ✓ appears to the selected photo file.
4. Press the **TOOLS** button.
   The option menu changes according to the current status.

❑ Slide Show

Using this menu, you can play a **Slide Show** using the photo files on the USB memory device.



❑ Play Current Group

Using this menu, you can play a **Slide Show** using only the photo files in the currently selected sorting group.

❑ Change Group (When the Sort key is the Colour)

You can change a selected photo file's (or group of files) colour information in order to move it from one colour group to another.

- This does not change the actual colour of the photo.
- The group information of the current file is updated and the photos are moved to the new colour group.
- To change the information of multiple files, select the files you want by pressing the Yellow button.

❑ Deselect All (When at least one file is selected)

You can deselect all files.

- The ✓ mark indicating the corresponding file is selected is hidden.

❑ Information

The photo file information including the name, the size, the resolution, the date modified and the path is displayed.

- You can view the information of photo files during a SlideShow using the same procedures.
- Press the **INFO** button to viewing the information.

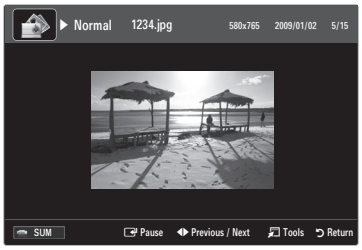
❑ Remove Safely

You can remove the device safely from the TV.

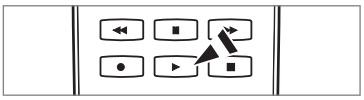
Viewing a Photo or Slide Show

Viewing a Slide Show

1. Press the ▼ button to select the File List Section.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER** ↵ button.
   - All files in the File List Section will be used for the Slide Show.



- During the slide show, files are displayed in order from the currently shown file.
- The Slide Show progresses in the order sorted in the File List Section.
- Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

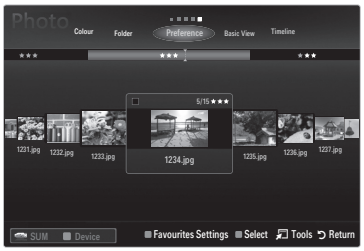


- While a photo list is displayed, press the ▶ (Play)/**ENTER** ↵ button on the remote control to start slide show.

SlideShow Control Buttons

Button	Operations
ENTER ↵	Play/Pause the Slide Show.
▶	Play the Slide Show.
⏸	Pause the Slide Show.
■	Exit Slide Show and return to the photo list.
◀◀/▶▶	Change the SlideShow playing speed.
TOOLS	Run various functions from the Photo menus.

Playing current group



1. Press the ▲ button to move to the Sort key Section.
2. Press the ◄ or ► button to select a sorting standard.
3. Press the ▼ button to move to the Group List Section.
4. Select a group using the ◄ and ► buttons.
5. Press the ▶ (Play) button. A slideshow begins with the files of the selected group.

- **Alternatively**

1. Select a Sort key and then in the File List Section, select the photos contained in the desired group.
   - To move to the previous/next group, press the ◀◀ (REW) or ▶▶ (FF) button.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** ↵ button.
   - Only the photos in the sorting group including the selected files will be used for the Slide Show.

To perform a Slide Show with only the selected files

1. Press the ▼ button to select the File List Section.
2. Press the ◄ or ► button to select the desired photo in the File List Section.
3. Press the Yellow button.
   - The ✓ mark appears to the left of the selected photo.
   - If you select one file, the Slide Show will not be performed.
   - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
4. Repeat the above operation to select multiple photos.
5. Press the ▶ (Play)/**ENTER** ↵ button.
   - The selected files will be used for the Slide Show.

- **Alternatively**

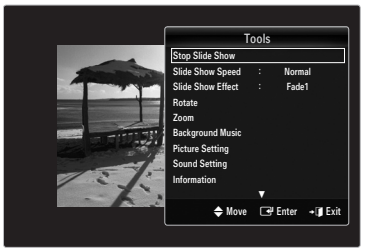
1. In the File List Section, press the Yellow buttons to select the desired photos.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER** ↵ button.
   ✎ The selected files will be used for the Slide Show.

Slide Show Option Menu

1. During a slide show (or when viewing a photo), press the **TOOLS** button to set the option.
2. Press the ▲ or ▼ button to select the desired option, then press the **ENTER** ↵ button.

❑ Stop Slide Show / Start Slide Show

You can start or stop a SlideShow.



❑ Slide Show Speed → Slow / Normal / Fast

You can select the slide show speed.

✎ This function is available only during a slide show.

✎ You can also change the speed of the Slide Show by pressing the ◄◄ (REW) or ►► (FF) button during the Slide Show.

❑ Slide Show Effect

You can select the screen transition effect used in the slideshow.

■ **None / Fade1 / Fade2 / Blind / Spiral / Checker / Linear / Stairs / Wipe / Random**

✎ This function is available only during a slide show.

❑ Rotate

You can rotate photos saved on a USB memory device.

✎ Whenever you press the ◄ button, it rotates by 270˚, 180˚, 90˚ and 0˚.

✎ Whenever you press the ► button, it rotates by 90˚, 180˚, 270˚ and 0˚.

✎ The rotated file is not saved.

❑ Zoom

You can magnify photos saved on a USB memory device. (x1 → x2 → x4)

✎ To move the enlarged photo image, press the **ENTER** ↵ button, then press the ▲/▼/◄/► buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.

✎ The enlarged file is not saved.

❑ Background Music

You can select background music when watching a Slide Show.

✎ To use this feature, there must be music and photo files stored on the USB device.

✎ Loading music files is needed to change BGM mode. Play music files in music category to load.

■ **Background Music → Off / On**

- **Off**: Background music is not played.
- **On**: When the background music is available, if you select **On**, the music is played back.

■ **BGM Mode → Mood / Selected File / Shuffle**

You can select a mode to use for the background music.

■ **BGM Mood → Energetic / Rhythmical / Sad / Exciting / Calm / Unclassified**

Music with the mood you selected is set as the background music.

✎ If you set **BGM Mode** to **Mood**, you can select a mood.

■ **Select Music File (0 File(s) Selected)**

Only the selected music file is set as the background music.

✎ If you set **BGM Mode** to **Selected File**, you can select a music file.

❑ **Picture Setting / Sound Setting**

You can select the picture and sound settings.

❑ **Information**

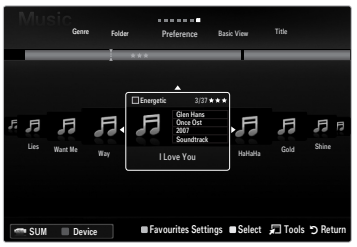
The photo file information is displayed.

❑ **Remove Safely**

You can remove the device safely from the TV.

Sorting the Music List

You can sort music files in the Music List by a particular standard.



1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Music**, then press the **ENTER** ↵ button.
3. Press the ▲ button to move to the Sort key Section.
4. Press the ◄ or ► button to select a sorting standard. (**Basic View, Title, Artist, Mood, Genre, Folder, Preference**)
   - The Music files are sorted according to the newly selected sorting standard.
5. Press the ▼ button to move to the File List Section. Press the ► (Play)/ **ENTER** ↵ button to start playing music in the order selected by the user.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
   - Music information is automatically set. The mood information extracted from a music file may differ from the expectations of the user. You can change the mood and preference.
   - If there is no title information for a music file, the filename is displayed.
   - If no information is available for the Artist, Album, Year, or Genre the corresponding item is displayed as blank.

❑ **Basic View**

Shows the folders of the USB memory device. If you select a folder and press the **ENTER** ↵ button, only the music files contained in the selected folder are displayed.

- When sorted according to the **Basic View**, you cannot set Favourites files.

❑ **Title**

Sorts the music titles in symbol/number/alphabet/special order, and shows the music file.

❑ **Artist**

Sorts the music file by artist in symbol/number/alphabet/special order.

❑ **Mood → Energetic / Rhythmical / Sad / Exciting / Calm / Unclassified**

Sorts music files by the mood. You can change the music mood information.

❑ **Genre**

Sorts music files by the genre.

❑ **Folder**

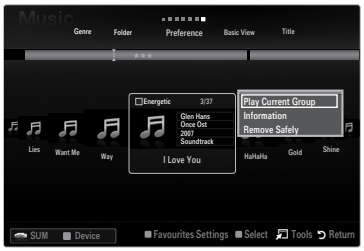
Sorts music files by the folder. If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.

❑ **Preference →** ★☆☆ / ★★☆ / ★★★ / ★★★

Sorts music files by preference (Favourites). You can change the music files preferences.

- Changing the Favourites Settings
  Select the desired music file in the Music list, then press the Green button repeatedly until the desired setting appears.
- Up to 3 stars can be selected.
- The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

Music List Option Menu



1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Music**, then press the **ENTER** button.
3. Press the ◄ or ► button to select the desired Music file.
   Selecting Multiple Music Files
   - Press the ◄ or ► button to select the desired music file. Then press the Yellow button.
   - Repeat the above operation to select multiple music files.
   - The mark ✓ appears to the selected music file.
4. Press the **TOOLS** button.
   The option menu changes according to the current status.

❑ Play Current Group

Using this menu, you can only play music files in the currently selected sorting group.

❑ Change Group (When the Sort key is Mood)

You can change the mood information of music files.

The group information of the current file is updated and the file is moved to the new group.

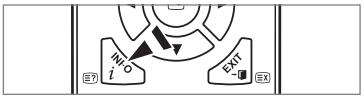
To change the information of multiple files, select files by pressing the Yellow button.

❑ Information

The music file information including the name, the size, the date modified and the path is displayed.

You can view the music file information during **Play Current Group** using the same procedures.

Press the **INFO** button to viewing the information.

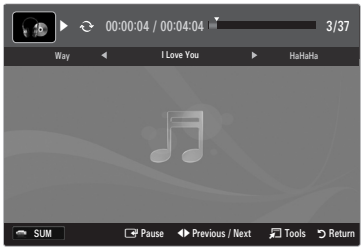


❑ Remove Safely

You can remove the device safely from the TV.

Playing Music

Playing a music file



1. Press the ▼ button to select the File List Section.
2. Press the ◄ or ► button to select a music file to be played.
3. Press the ► (Play)/**ENTER** button.
   - This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
   - The selected file is displayed at the top with its playing time.
   - To adjust the music volume, press the volume button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
   - If the sound is odd when playing MP3 files, adjust the **Equalizer** and **SRS TruSurround HD** in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)
   - The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
   - ◄◄ (REW) or ►► (FF) buttons do not function during play.

- **Music Play Control Buttons**

Button	Operations
ENTER	Play/Pause the music file.
►	Play the music file
II	Pause the music file
■	Exit play mode and return to the music list.
TOOLS	Run various functions from the Music menus.

- **Music function information icon**

	When all music files in the folder (or the selected file) are repeated. **Repeat Mode** is **On**.
	When all music files in the folder (or the selected file) are played once. **Repeat Mode** is **Off**.

Playing the music group

1. Press the ▲ button to move to the Sort key Section.
2. Press the ◄ or ► button to select a sorting standard.
3. Press the ▼ or **ENTER** button to move to the Group List Section.
4. Press the ► (Play) button. The files of the selected group will start playing.

- **Alternatively**

1. Select a sort key and then in the File List Section, select the files contained in the desired group.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
   - The music files in the sorting group including the selected file are played.

Playing the selected music files

1. Press the ▼ button to select the File List Section.
2. Press the ◄ or ► button to select the desired music file.
3. Press the Yellow button.
   - The ✓ appears to the left of the selected music file.
   - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
4. Repeat the above operation to select multiple music files.
5. Press the ► (Play)/**ENTER** button.
   - The selected files will be played.

Music Play Option Menu

Music Play Option Menu

❑ **Repeat Mode → On / Off**

You can play music files repeatedly.

❑ **Picture Setting / Sound Setting**

You can configure the picture and sound settings.

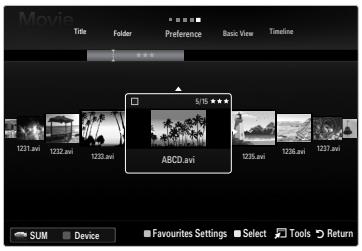
❑ **Information**

The music file information is displayed.

❑ **Remove Safely**

You can remove the device safely from the TV.

Sorting the Movie List



You can sort movies in the Movie List by a particular standard.

1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Movie**, then press the **ENTER** button.
3. Press the ▲ button to move to the Sort key Section.
4. Press the ◄ or ► button to select a sorting standard. (**Basic View, Timeline, Title, Folder, Preference**)
   The movie files are sorted according to the newly selected sorting standard.
5. Press the ► (Play)/**ENTER** button to play the movie in the order selected.
   Movie information is automatically set. You can change the preference.

❑ **Basic View**

Shows the folders of the USB memory device. If you select a folder and press the **ENTER** button, only the movie files contained in the selected folder are displayed.

When sorted according to the **Basic View**, you cannot set Favourites files.

❑ **Timeline**

Sorts movies by date. It sorts by year and month from the earliest movie.

❑ **Title**

Sorts and displays the movie titles in symbol/number/alphabet/special order.

❑ **Folder**

If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the Root folder is shown first and the others are shown in alphabetical order by name.

❑ **Preference →** ★★★ / ★★☆ / ★☆☆ / ☆☆☆

Sorts movies by preference. (Favourites) You can change the movie preferences.

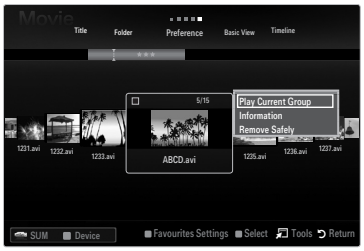
Changing the Favourites Settings

Select the desired movie file in the movie list, then press the Green button repeatedly until the desired setting appears.

Up to 3 stars can be selected.

The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

Movie List Option Menu



1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Movie**, then press the **ENTER** button.
3. Press the ◄ or ► button to select the desired Movie file.
   - Selecting Multiple Movie Files
     - Press the ◄ or ► button to select the desired movie file. Then press the Yellow button.
     - Repeat the above operation to select multiple movie files.
     - The mark ✓ appears to the selected movie file.
4. Press the **TOOLS** button.
   - The option menu changes according to the current status.

❑ Play Current Group

Using this menu, you can only play movie files in the currently selected sorting group.

❑ Deselect All (When at least one file is selected)

You can deselect all files.

- The ✓ mark indicating the corresponding file is selected is hidden.

❑ Information

The movie file information including the name, the size, the date modified and the path is displayed.

- Press the **INFO** button to viewing the information.

❑ Remove Safely

You can remove the device safely from the TV.

Playing a Movie File

Playing a movie file

1. Press the ▼ button to select the File List Section.
2. Pressing the ◄ or ► button to select a movie file to be played.
3. Press the ► (Play)/**ENTER** button.
   - The selected file is played.
   - The selected file is displayed at the top with its playing time.
   - The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
   - You can watch exciting gaming multimedia files, but the gaming function is not supported.

Supported Subtitle Formats

Name	File extention	Format
MPEG-4 time-based text	.ttxt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

Supported Video Formats

File extension	Container	Video Decoder	Audio codec
*.avi	AVI	Divx 3.11	MP3, AC3, LPCM, ADPCM (MULAW ALAW)
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
		Motion JPEG	
*.mkv	MKV	Divx 3.11	MP3, AC3, LPCM, ADPCM (MULAW ALAW), AAC
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
		Motion JPEG	
*.asf	ASF	Divx 3.11	WMA, MP3, AC3, LPCM, ADPCM, (MULAW ALAW), AAC
		Divx 4.x	
		Divx 5.1	
		Divx 6.0	
		XviD	
		H.264 BP	
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
*.wmv (VC1)		Window Media Video v9	
*.mp4	MP4 (SMP4)	H.264 BP	ADPCM, (HE)-AAC, mp3
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
		XVID	
*.3gp	3GPP	H.264 BP	ADPCM, (HE)-AAC
		H.264 MP	
		H.264 HP	
		MPEG-4 SP	
		MPEG-4 ASP	
*.vro (ps)	VRO / VOB	MPEG2	AC3, MPEG, LPCM
		MPEG1	
*.mpg *.mpeg (ps)		MPEG1 (Programme Stream)	AC3, MPEG, LPCM
		MPEG2 (Programme Stream)	
others (ts)		MPEG2 (Transport Stream)	AAC, HE-AAC, MP3, DD+
		H.264 (Transport Stream)	
		VC1 (Transport Stream)	

Video Play Control Buttons

Button	Operations
ENTER ↵	Play/Pause the movie file
►	Play the movie file
II	Pause the movie file
TOOLS	Run various functions from the Movie menus.
■	Exit play mode and return to the movie list.
◄ / ►	Skip forwards or backwards through the movie file.
▲ / ▼	Move to the first/last of the file.
►►	Play the file at double speed. This function may not be supported depending on the codec.

Playing the movie group

1. Press the ▲ button to move to the Sort key Section.
2. Press the ◄ or ► button to select a sorting standard.
3. Press the ▼ or **ENTER** ↵ button to move to the Group List Section.
4. Press the ► (Play) button. Only the files of the selected group will start playing.

- **Alternatively**

1. Select a Sort key and then in the File List Section, select the files contained in the desired group.
   To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** ↵ button.
   The movie files in the sorting group including the selected file are played.

Playing the selected movie files

1. Press the ▼ button to select the File List Section.
2. Press the ◄ or ► button to select the desired movie file.
3. Press the Yellow button.
   The ✓ mark appears to the left of the selected movie file.
   To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
4. Repeat the above operation to select multiple movie files.
5. Press the ► (Play)/**ENTER** ↵ button.
   Only the selected file is played.

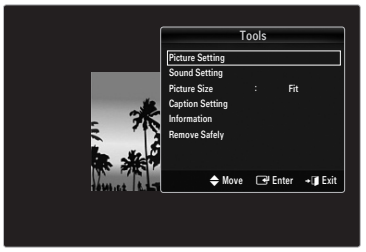
Playing movie continuously (Resume Play)

If you exit the playing movie function, the movie can be played later from the point where it was stopped.

1. Select the movie file you want to play continuously by pressing the ◄ or ► button to select it from the File List Section.
2. Press the ► (Play)/**ENTER** ↵ button.
3. Select **Play Continuously** (Resume Play) by pressing the Blue button.
   The Movie will begin to play from where it was stopped.
   If **Cont. movie play help** function is set **On** in the **Setup** menu, a pop-up message will appear when you resume play a movie file.

Movie Play Option Menu

Movie Play Option Menu



❑ Picture Setting / Sound Setting

You can configure the picture and sound settings.

❑ Picture Size

- **Fit**
  Play video at the TV screen size.
- **Original**
  Play video at the original size.

❑ Caption Setting

You can set the captions for the movie.

- **Caption → On / Off**
  You can turn the captions for the movie on or off.
- **Caption Language**
  You can set the caption language.
- **Caption Size → Small / Standard / Large**
  You can change the font size of the captions.
- **Caption Sync**
  You can adjust the caption sync.
- **Caption Sync Reset**
  You can reset the adjusted caption sync.

❑ Information

The movie file information is displayed.

❑ Remove Safely

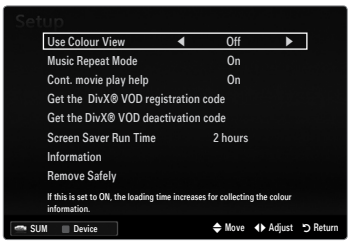
You can remove the device safely from the TV.

Using the Setup Menu

Setup displays the user settings of the **Media Play** menu.

1. Press the **MEDIA.P** button.
2. Press the ◄ or ► button to select **Setup**, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select the desired option.
4. Press the ◄ or ► button to select the option, then press the **ENTER** button.

To exit **Media Play** mode, press the **MEDIA.P** button on the remote control.



❑ Use Colour View → On / Off

You can select sorting photos by colour. If this option is set to On, the loading time may be increased to collect colour information from the photos.

❑ Music Repeat Mode → On / Off

Select to repeatedly play music files.

❑ Cont. movie play help → On / Off

Select to display the help pop-up message for continuous movie playback.

❑ Get the DivX® VOD registration code

Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file.

If you play the VOD registration using Media Play, the registration is completed.

For more information on DivX® VOD, visit www.DivX.com.

❑ Get the DivX® VOD deactivation code

When DivX® VOD is not registered, the registration deactivation code is displayed.

If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.

❑ Screen Saver Run Time → 2 hours / 4 hours / 8 hours

Select to set the waiting time before the screen saver appears.

❑ Information

Select to viewing the information of the connected device.

❑ Remove Safely

You can remove the device safely from the TV.

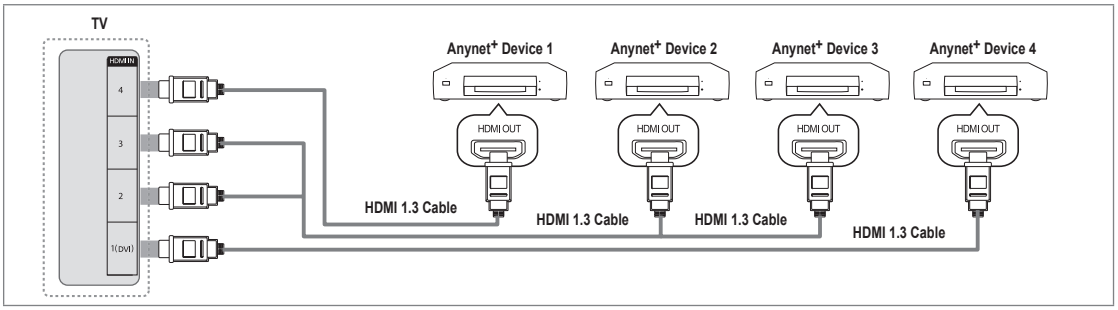
ANYNET+

Connecting Anynet+ Devices

What is Anynet+?

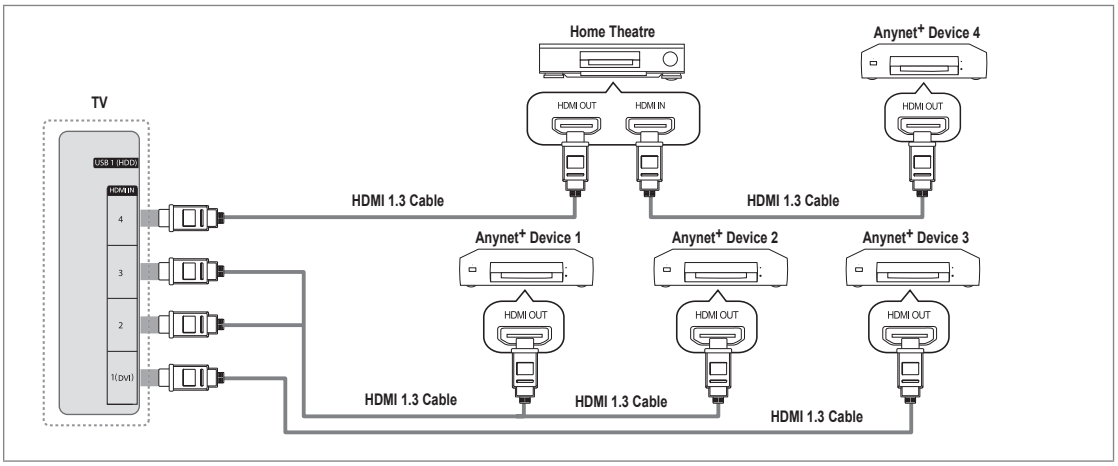
Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to a TV



1. Connect the **HDMI IN (1(DVI), 2, 3** or **4)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

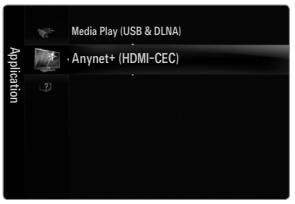
To connect to Home Theatre



1. Connect the **HDMI IN (1(DVI), 2, 3** or **4**) jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
   - Connect only one Home Theatre.
   - You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
   - Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
   - Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

Press the **TOOLS** button to display the **Tools** menu. You can also display Anynet+ menu by selecting **Tools** → **Anynet+ (HDMI-CEC)**.

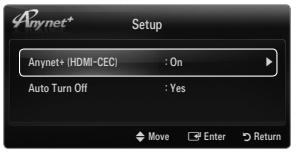


❑ Setup

■ **Anynet+ (HDMI-CEC)** → **Off / On**

To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

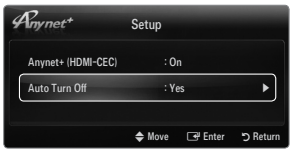


■ **Auto Turn Off** → **No / Yes**

Setting an Anynet+ Device to turn Off automatically when the TV is turned Off.

The active source on the TV remote must be set to TV to use the Anynet+ function.

If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.



Switching between Anynet+ Devices

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Device List**, then press the **ENTER** button.
   - Anynet+ devices connected to the TV are listed.
   - If you cannot find a device you want, press the red button to scan for devices.
3. Press the ▲ or ▼ button to select a particular device and press the **ENTER** button. It is switched to the selected device.
   - Only when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu, the **Device List** menu appears.

- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- The time required to scan for devices is determined by the number of connected devices.
- When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV may not always be automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) **MENU**	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) **INFO**	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER** buttons Colour buttons / **EXIT** button
	After switching to the device, while playing a file	◄◄(Backward search) / ►►(Forward search) / ■(Stop) / ►(Play) / ❚❚(Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV Programme	**P** ∨ / **P** ∧ button
Audio Device	When Receiver is activated	**– VOL +** / **MUTE** button

- The Anynet+ function only works when the active source on the TV remote control is set to TV.
- The ● button works only while in the recordable state.
- You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV Programme using a Samsung recorder.

1. Press the **TOOLS** button. Press the **ENTER** ↵ button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select Recording Immediately and press the **ENTER** ↵ button. Recording begins.
   - When there is more than one recording device
     When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER** ↵ button. Recording begins.
   - When the recording device is not displayed select **Device List** and press the Red button to search devices.
3. Press the **EXIT** button to exit.
   - You can record the source streams by selecting **Recording**: (device_name).
   - Pressing the ● button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
   - Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver (Home theatre)

You can listen to sound through a receiver instead of the TV speaker.

1. Press the **TOOLS** button. Press the **ENTER** ↵ button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select Recording Immediately and press the **ENTER** ↵ button. Recording begins.
   Press the ▲ or ▼ button to select **Receiver**. Press the ◄ or ► button to select **On** or **Off**.
3. Press the **EXIT** button to exit.
   - If your receiver supports audio only, it may not appear in the device list.
   - If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Speaker Select** may be set to **External Speaker** when you turn the TV on again.

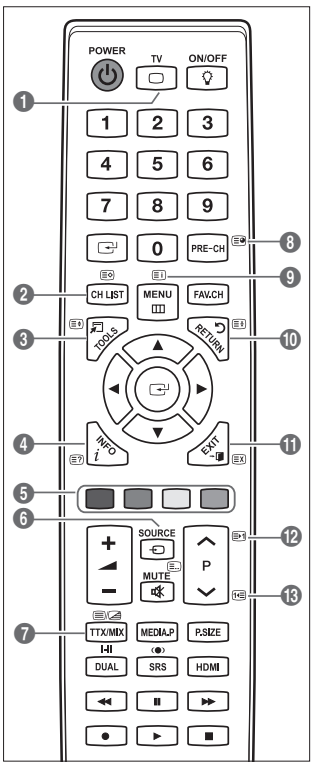
Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	● Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. ● Connect only one receiver (home theatre). ● Check if the Anynet+ device power cord is properly connected. ● Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. ● Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ● Check whether the TV remote control is in TV mode. ● Check whether it is Anynet+ exclusive remote control. ● Anynet+ doesn't work in certain situations. (Searching channels, Operating **Media Play, Plug & Play**, etc.) ● When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. ● Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	● Check if the Anynet+ device is properly connected to the TV and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ Setup menu. ● Press the **TV** button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the **Anynet+** menu and select a menu you want.
I want to exit Anynet+.	● Select **View TV** in the **Anynet+** menu. ● Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. ● Press **P ∨/∧**, **PRE-CH** and **FAV.CH** to change the **TV** mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message 'Connecting to Anynet+ device...' appears on the screen.	● You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. ● Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	● You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	● Check whether or not the device supports Anynet+ functions. ● Check whether or not the HDMI 1.3 cable is properly connected. ● Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. ● Search Anynet+ devices again. ● You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. ● If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	● Check whether the antenna jack on the recording device is properly connected.

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the Teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ (exit)
Exit from the Teletext display.

❷ (store)
Used to store the Teletext pages.

❸ (size)
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❹ (reveal)
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❺ Colour buttons (red/green/yellow/blue)
If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

❻ (mode)
Press to select the Teletext mode (LIST/ FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save Teletext page into list using the (store) button.

❼ / (Teletext on/mix)
Press to activate Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext with the current broadcasting screen.

❽ (sub-page)
Used to display the available sub-page.

❾ (index)
Used to display the index (contents) page at any time while you are viewing Teletext.

❿ (hold)
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓫ (cancel)
Used to display the broadcast when searching for a page.

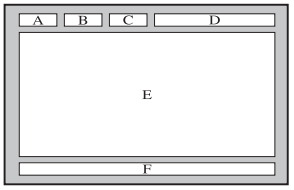
⓬ (page up)
Used to display the next Teletext page.

⓭ (page down)
Used to display the previous Teletext page.

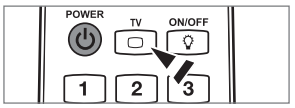
You can change Teletext pages by pressing the numeric buttons on the remote control.

The Teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.

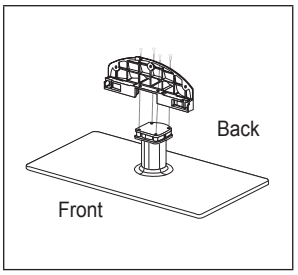


- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)
- Teletext level supported by the TV is version 2.5 which is capable of displaying additional graphics or text.
- Depending upon the transmission, blank side panels can occur when displaying Teletext.
- In these cases, additional graphics or text is not transmitted.
- Older TV's which do not support version 2.5 are not capable of displaying any additional graphics or text, regardless of the Teletext transmission.
- Press the **TV** button to exit from the Teletext display.

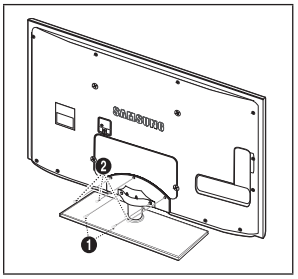


Installing the Stand

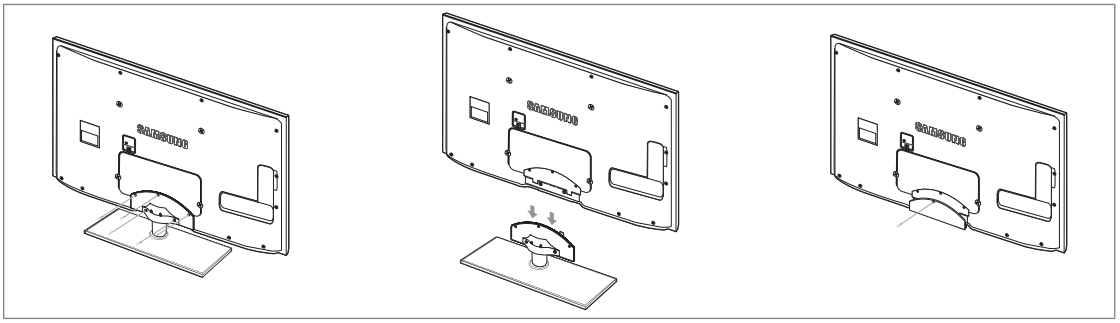
- **Preset**: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws.



1. Attach your LED TV to the stand.
   - Two or more people should carry the TV.
   - Make sure to distinguish between the front and back of the stand when assembling them.
   - To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
2. Fasten screws at position ❶ and then fasten screws at position ❷.
   - Stand the product up and fasten the screws. If you fasten the screws with the LED TV placed down, it may lean to one side.



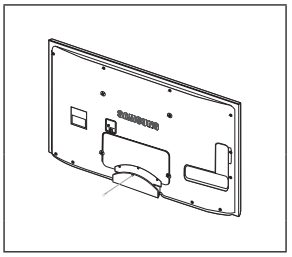
Disconnecting the Stand



1. Remove screws from the back of the TV.
2. Separate the stand from the TV.
   Two or more people should carry the TV.
3. Cover the bottom hole with the cover.

Installing the Wall Mount Kit

Wall mount items (sold separately) allow you to mount the TV on the wall.
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.



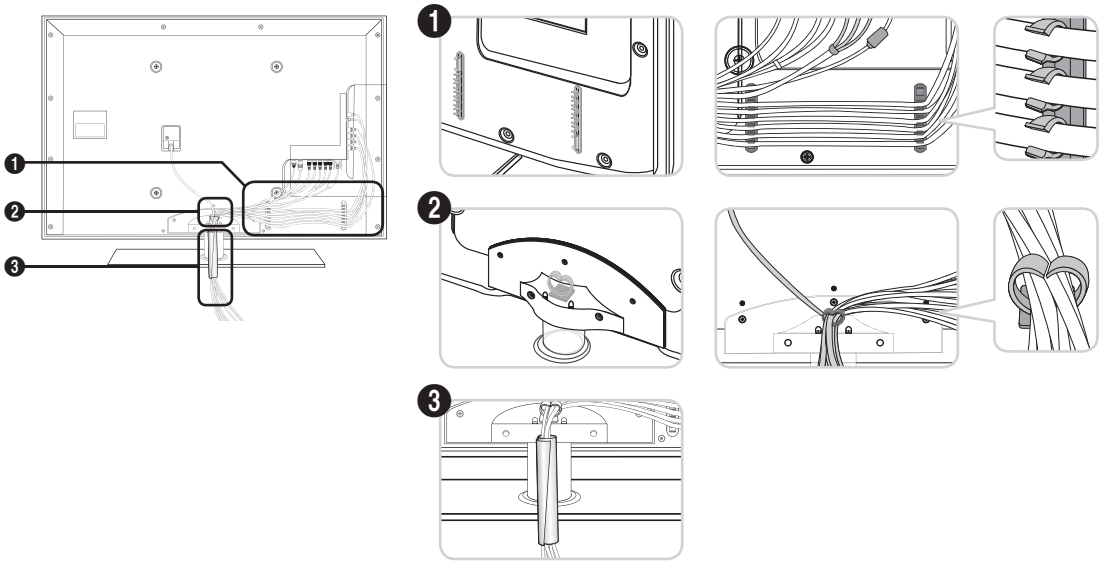
Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Remove the stand and cover the bottom hole with a cap and fasten with screw.

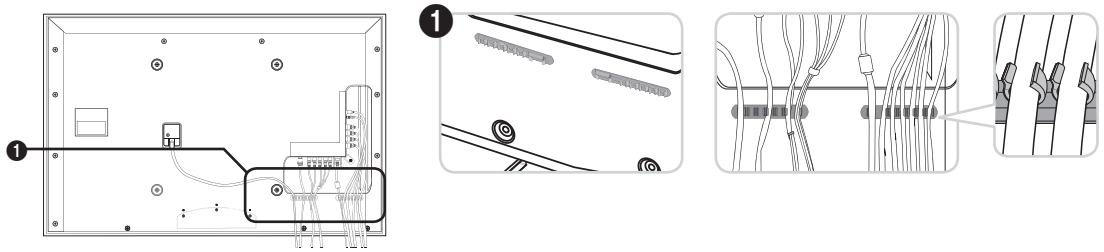
Assembling the Cables

❑ Stand Type

Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



❑ Wall-Mount Type



Do not pull the cables too hard when arranging them. This may cause damage to the product's connection terminals.

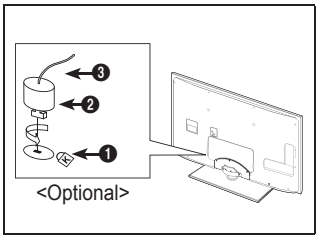
Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for proper use.

- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.

1. Insert the locking device into the Kensington slot on the LED TV (❶) and turn it in the locking direction (❷).
2. Connect the Kensington Lock cable (❸).
3. Fix the Kensington Lock to a desk or a heavy stationary object.



<Optional>

Securing the Installation Space

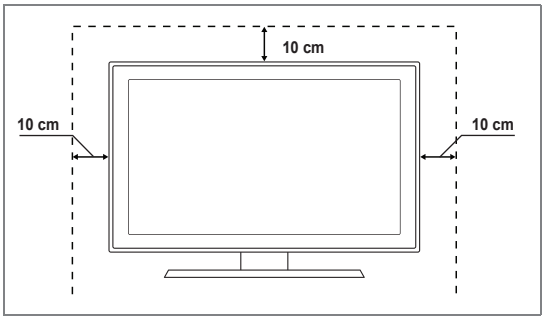
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

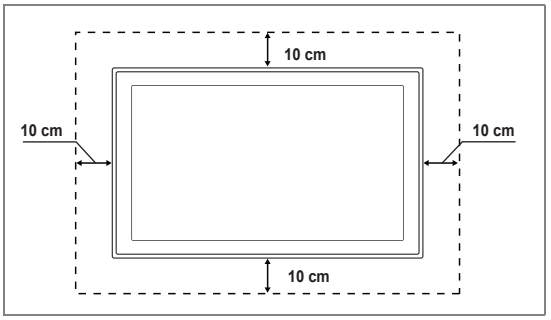
Install the product so the required distances shown in the figure are kept.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- The appearance may differ depending on the product.

When installing the product with a stand

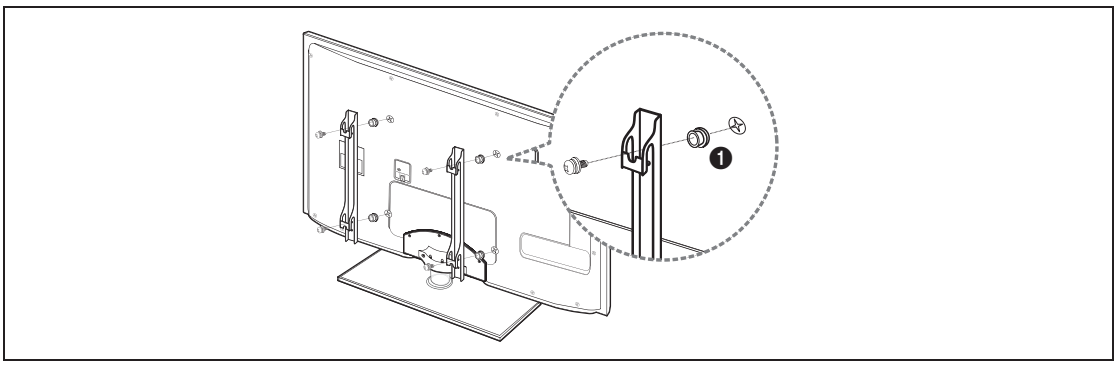


When installing the product with a wall-mount



Preparing before installing Wall-Mount

To install a wall-mount from another manufacturer, use the Holder-Ring ❶.

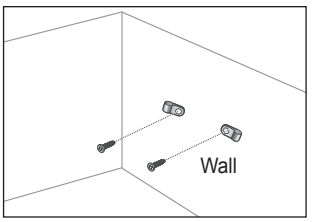


Securing the TV to the Wall

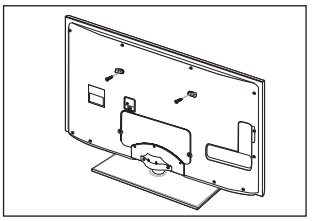
Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling:

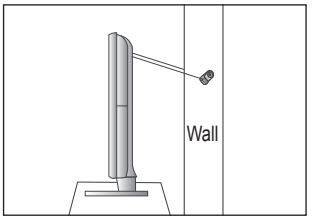
1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.



2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
   - Screw Specifications
   - For a 32 ~ 40 Inch LED TV: M6 X 15 / For a 40 ~ 55 inch LED TV : M8 X L30



3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.



Troubleshooting: Before Contacting Service Personnel

Problem	Possible Solution
No sound or picture	Check that the mains lead has been connected to a wall socket. Check that you have pressed the button on your set. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	Check the volume. Check whether the **MUTE** button has been pressed on the remote control. Check the **Speaker Select** settings.
Screen is black and power indicator light blinks steadily	On your computer check; Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.
'Check signal cable.' message is displayed	Check that the signal cable is firmly connected to the PC or video sources. Check that the PC or video sources are turned on.
On PC mode, 'Not Supported Mode.' message is displayed	Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen	If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The 'Resets all settings to the default values.' message appears.	This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	This is part of the product's design and is not a defect.

This TFT LED panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Specifications

Model Name	UA32B6000	UA40B6000
Screen Size (Diagonal)	32 inch	40 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2	10W X 2
Dimensions (WxDxH) Without Stand With stand	 799 X 30 X 521 mm 799 X 255 X 580 mm	 983 X 30 X 631 mm 983 X 255 X 688 mm
Weight With Stand	14 kg	18 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

Model Name	UA46B6000
Screen Size (Diagonal)	46 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2
Dimensions (WxDxH) Without Stand With stand	 1115 X 30 X 705 mm 1115 X 275 X 763 mm
Weight With Stand	23 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	-20˚ ~ 20˚

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.

- This product uses parts of the software from the Independent JPEG Group.
- This product uses parts of the software owned by the Freetype Project (www.freetype.org).
- This product uses some software programs which are distributed under the GPL/LGPL license. Accordingly, the following GPL and LGPL software source codes that have been used in this product can be provided after asking to vdswmanager@samsung.com.

  GPL software: Linux Kernel, Busybox, Binutils

  LGPL software: Glibc, ffmpeg, smpeg, libgphoto, libusb, SDL

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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